



# UL 1769

## **STANDARD FOR SAFETY**

### Cylinder Valves

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UL Standard for Safety for Cylinder Valves, UL 1769

Fifth Edition, Dated June 25, 2015

### **Summary of Topics**

***This new edition of ANSI/UL 1769 includes the addition of requirements for refrigerant and to address the editorial maintenance of UL Standards for Safety.***

The revised requirements are substantially in accordance with Proposal(s) on this subject dated May 8, 2015.

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JUNE 25, 2015



ANSI/UL 1769-2015

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UL 1769

## Standard for Cylinder Valves

First Edition – April, 1989  
Second Edition – May, 1996  
Third Edition – February, 2003  
Fourth Edition – June, 2006

### Fifth Edition

June 25, 2015

This ANSI/UL Standard for Safety consists of the Fifth edition.

The most recent designation of ANSI/UL 1769 as an American National Standard (ANSI) occurred on June 25, 2015. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

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## INTRODUCTION

### 1 Scope

1.1 These requirements cover shut-off valves, with or without relief valve, that are for use on cylinders that comply with the specifications and charging and maintenance regulations of the U.S. Department of Transportation (DOT) or the corresponding specifications and regulations of Transport Canada (TC).

1.2 Valves covered by these requirements are for use on DOT or TC cylinders used for flow of gas into and out of the cylinder, in applications such as, but not limited to, automotive, medical, or industrial systems, vehicles, facilities, or providing fuel to buildings or appliances, and as covered in the following standards:

- a) Liquefied Petroleum Gas Code, NFPA 58;
- b) Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes, NFPA 51;
- c) Safety Requirements for the Storage and Handling of Anhydrous Ammonia – See CGA G-2.1, CGA K61.1;
- d) Safety in Welding, Cutting, and Allied Processes, AWS Z49.1; and
- e) Health Care Facilities, NFPA 99.

1.3 Gas-line shut-off valves, other shutoff valves used on ASME containers, filler valves, excess flow check valves, for use with liquefied petroleum gases or anhydrous ammonia are covered by the requirements in the Standard for Flow Control Valves for Anhydrous Ammonia and LP-Gas, UL 125.

1.4 Gas-line shut-off valves for use with flammable gases are covered by the requirements in the Standard for Valves for Flammable Fluids, UL 842.

1.5 Gas-line shutoff valves for compressed gases, other than those described in 1.3 and 1.4, are covered by the requirements in Outline of Investigation for Compressed Gas Shutoff Valves, UL 1477.

1.6 The type of refrigerant used in the system shall comply with the Standard for Refrigerants, UL 2182.

## 2 General

### 2.1 Components

2.1.1 Except as indicated in 2.1.2, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components generally used in the products covered by this standard.

2.1.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or
- b) Is superseded by a requirement in this standard.

2.1.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.1.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

2.1.5 A cylinder valve is permitted to incorporate several different types of components such as, but not limited to, a back pressure check-valve, excess flow check-valve, quick-disconnect coupling, quick-closing coupling, fixed tube vent valve, liquid-level gauge, and/or high pressure gauge.

### 2.2 Units of measurement

2.2.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

### 2.3 Undated references

2.3.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.